HIA

	Application No.	Applicant(s)
Notice of Allowability	10/646,612	COLLINS ET AL.
	Examiner	Art Unit
	Alexander G. Ghyka	2812
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 2. The allowed claim(s) is/are 1-51 and 53-87. 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have	(OR REMAINS) CLOSED in this applior other appropriate communication (GHTS). This application is subject to and MPEP 1308. Index 35 U.S.C. § 119(a)-(d) or (f).	orrespondence address blication. If not included will be mailed in due course. THIS withdrawal from issue at the initiative ALEXANDER GHYKA PRIMARY EXAMINER AU 28 12 AU 28 12
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of		
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Dat 	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0		
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8.	ent of Reasons for Allowance

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DETAILED ACTION

Allowable Subject Matter

Claims 1-51 and 53-87 are allowed.

The following is an examiner's statement of reasons for allowance: The closest prior art known to the Examiner is listed on the PTO 892 and IDS forms of record. With respect to Claim 6, the cited prior art does not anticipate or make obvious, *inter alia*, generation from said process gas a plasma by capacitatively coupling RF source power across said work piece support and said ceiling or said sidewall from an RF source power generator; applying an RF bias from an RF bias generator to said workpiece support; setting said RF bias to a level corresponding to a desired depth in said layer to which said element is to be implanted; and wherein said layer comprises a semiconductor material, and said species to be implanted comprises a dopant impurity that promotes one of a p-type or n-type conductivity in said semiconductor material, and wherein said desired depth to which said element is to be implanted corresponds to a desired p-n junction depth, as required by Claim 6 and dependent claims thereof. With respect to the remaining claims, the remaining claims are allowable for the reasons of record in light of Applicants' amendments.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander G. Ghyka whose telephone number is (571) 272-1669. The examiner can normally be reached on Monday through Thursday during general business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AGG November 22, 2005

ALEXANDER GHYKA PRIMARY EXAMINER